MOB II

VOLVO

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	ABNORMAL
FLUID CONDITION	NORMAL

Area
[SWA560078-10]
Machine Id
VOLVO L180H 5412
Component
Hydraulic System
Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

WEAR

All component wear rates are normal.

CONTAMINATION

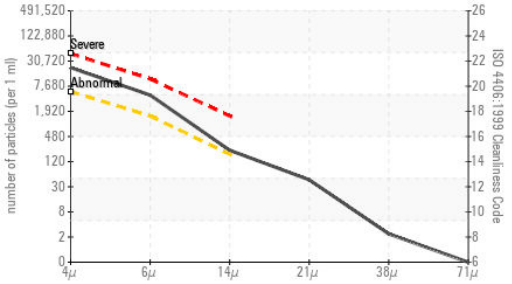
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil.

FLUID CONDITION

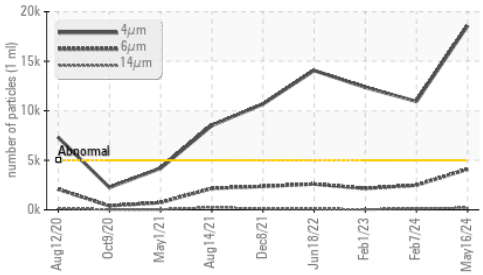
The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

Test	UOM	Method	Limit/Abn	Current	History1	History2
Sample Number		Client Info		VCP430313	VCP442820	VCP396101
Sample Date		Client Info		16 May 2024	07 Feb 2024	01 Feb 2023
Machine Age	hrs	Client Info		9182	7046	6657
Oil Age	hrs	Client Info		2000	0	6657
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	N/A	Changed
Filter Changed		Client Info		Not Changd	Changed	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>50	5	9	9
Chromium	ppm	ASTM D5185m	>20	2	1	4
Nickel	ppm	ASTM D5185m	>10	0	<1	0
Titanium	ppm	ASTM D5185m		0	<1	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	2	<1
Lead	ppm	ASTM D5185m	>20	0	2	<1
Copper	ppm	ASTM D5185m	>20	2	4	5
Tin	ppm	ASTM D5185m	>20	0	<1	<1
Vanadium	ppm	ASTM D5185m		0	0	0
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Silicon	ppm	ASTM D5185m	>20	5	4	4
Potassium	ppm	ASTM D5185m	>20	<1	2	0
Water		WC Method	>0.2	NEG	NEG	NEG
Particles >4µm		ASTM D7647	>5000	▲ 18590	▲ 10944	▲ 12359
Particles >6µm		ASTM D7647	>1300	▲ 4101	● 2482	● 2153
Particles >14µm		ASTM D7647	>160	● 198	114	37
Particles >21µm		ASTM D7647	>40	39	19	7
Particles >38µm		ASTM D7647	>10	2	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	▲ 21/19/15	▲ 21/18/14	▲ 21/18/12
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	NEG	NEG	NEG
Sodium	ppm	ASTM D5185m		2	0	3
Boron	ppm	ASTM D5185m	14	0	3	0
Barium	ppm	ASTM D5185m	0.0	0	13	0
Molybdenum	ppm	ASTM D5185m	0.0	0	1	0
Manganese	ppm	ASTM D5185m	0.0	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2.6	3	5	<1
Calcium	ppm	ASTM D5185m	49	67	315	39
Phosphorus	ppm	ASTM D5185m	354	344	406	294
Zinc	ppm	ASTM D5185m	419	424	485	359
Sulfur	ppm	ASTM D5185m	3719	1751	1313	663
Acid Number (AN)	mg KOH/g	ASTM D8045		0.29	0.44	0.34
Visc @ 40°C	cSt	ASTM D445	46	43.0	40.0	39.6

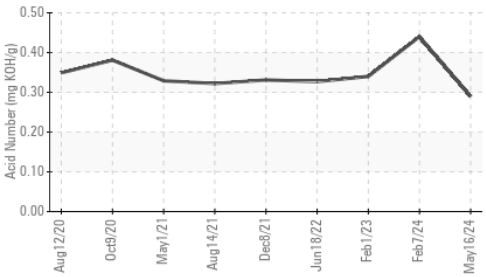
Particle Count



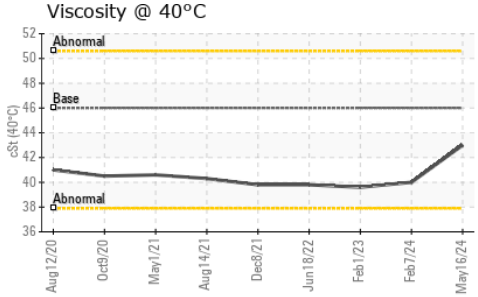
Particle Trend



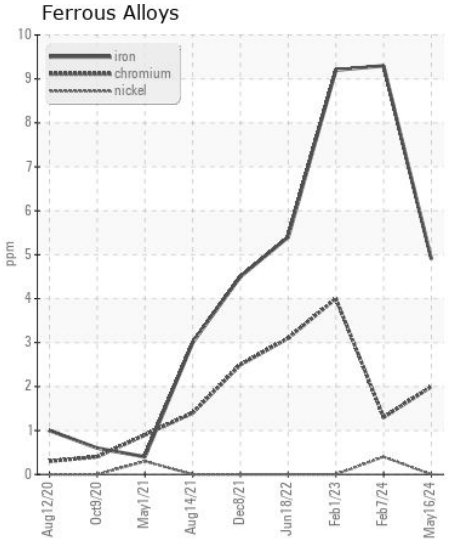
Acid Number



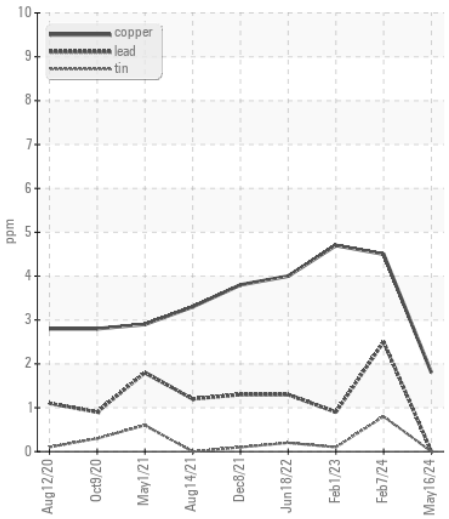
Viscosity @ 40°C



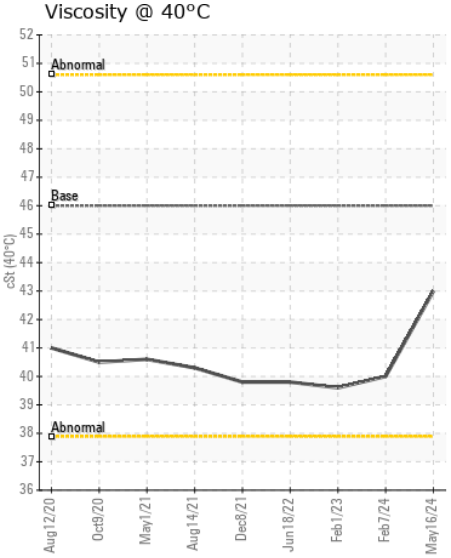
Ferrous Alloys



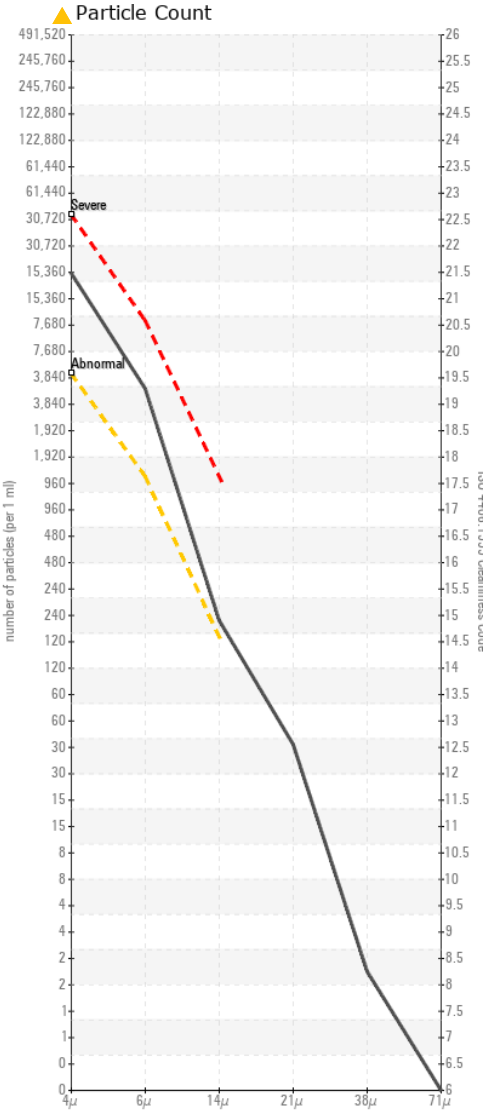
Non-ferrous Metals



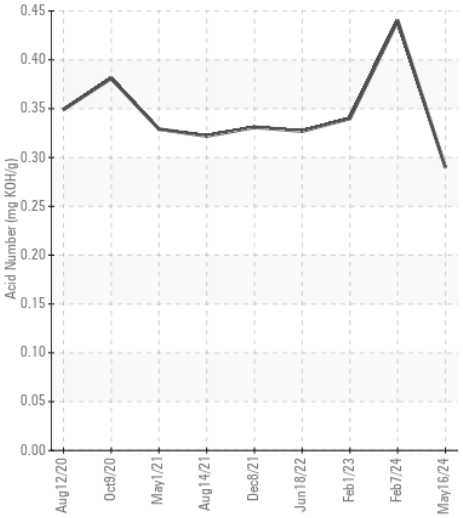
Viscosity @ 40°C



Particle Count



Acid Number



Certificate L2367

Laboratory	: WearCheck USA - 501 Madison Ave., Cary, NC 27513		
Sample No.	: VCP430313	**Received**	: 24 May 2024
Lab Number	: 06190983	**Tested**	: 29 May 2024
Unique Number	: 11047735	**Diagnosed**	: 29 May 2024 - Wes Davis
Test Package	: MOB 2		

To discuss this sample report, contact Customer Service at 1-800-237-1369.
** - Denotes test methods that are outside of the ISO 17025 scope of accreditation.*
Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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